

ABSTRACT OF THE DISCLOSURE

Light emitted from an optical fiber is collimated by a collimating lens. An optical filter with a slit is placed in the path of the collimated light. The slit can be moved along a direction perpendicular to the

5 path of the collimated light. When the slit is on the center of the collimated beam, because the intensity of light is high at the center, the diffraction loss of the light is high. When the slit is on the edge, because the light intensity is low at the edge, the diffraction loss is low. The diffraction loss has a wavelength characteristic and can be

10 controlled by adjusting the position of the slit in the collimated beam.